ISSN 0024-6107

Journal of the London Mathematical Society

Second Series
Volume 71
2005

Edited by Francis E. Burstall
John F. Toland

Executive Editor Amanda Harper

© London Mathematical Society 2005 Cambridge University Press

EDITORIAL ADVISORY BOARD

Algebra and representation theory
Professor S. KOENIG, University of Leicester
Algebraic combinatorics and finite group theory
Professor A. A. IVANOV, Imperial College of Science, Technology and Medicine
Algebraic geometry
Dr G. K. SANKARAN, University of Bath
Algebraic number theory
Dr A. F. JARVIS, University of Sheffield
Algebraic topology
Dr P. R. TURNER, Heriot-Watt University
Combinatorics and theoretical computer science
Professor C. J. MITCHELL, Royal Holloway, University of London
Complex analysis and potential theory
Dr T. F. CARROLL, University College Cork, National University of Ireland
Differential geometry and geometric analysis
Dr M. A. SINGER, University of Edinburgh
Discrete groups and topology
Professor I. J. LEARY, University of Southampton
Elementary and analytic number theory
Professor G. HARMAN, Royal Holloway, University of London
Ergodic theory and dynamical systems
Professor T. B. WARD, University of East Anglia
Finite groups
Professor R. A. WILSON, Queen Mary, University of London
Functional analysis
Dr M. C. WHITE, University of Newcastle upon Tyne
Functional analysis and operator theory
Professor C. J. K. BATTY, University of Oxford
Geometric partial differential equations
Dr P. M. TOPPING, University of Warwick
Infinite group theory
Professor M. P. F. DU SAUTOY, University of Oxford
Lie theory and representation theory
Professor A. PREMET, University of Manchester
Linear partial differential equations and spectral theory
Professor A. V. SOBOLEV, University of Sussex
Logic, analytic and algebraic geometry, theoretical computer science
Professor A. J. MACINTYRE, Queen Mary, University of London
Low-dimensional topology, geometry and discrete groups
Professor A. W. REID, University of Texas
Mathematical logic
Professor M. PREST, University of Manchester
Mathematical physics
Dr N. M. J. WOODHOUSE, University of Oxford
Non-commutative algebra and quantum groups
Professor K. A. BROWN, University of Glasgow
Non-commutative geometry
Professor A. G. ROBERTSON, University of Newcastle upon Tyne
Non-linear analysis and differential equations
Professor J. R. L. WEBB, University of Glasgow
Non-linear partial differential equations and calculus of variations
Professor S. MÜLLER, Max Planck Institute for Mathematics in the Sciences, Leipzig
Number theory
Professor J. E. CREMONA, University of Nottingham
Ordinary differential equations
Dr C. J. CHRISTOPHER, University of Plymouth
Probability and stochastic analysis
Dr B. M. HAMBLY, University of Oxford
Real analysis and geometric measure theory
Professor M. CSÖRNYEI, University College London
Real analysis, potential theory and approximation theory
Professor S. J. GARDINER, University College Dublin, National University of Ireland
Real harmonic analysis
Dr J. R. WRIGHT, University of Edinburgh
Representation theory and homological algebra
Dr A. D. KING, University of Bath
Singularity theory and geometry
Professor V. V. GORYUNOV, University of Liverpool
Spectral geometry, partial differential equations and related problems in stochastic analysis
Professor M. VAN DEN BERG, University of Bristol
Topology and K-theory
Professor U. L. TILLMANN, University of Oxford

CONTENTS

BARTAL, YAIR, LINIAL, NATHAN, MENDEL, MANOR and NAOR, ASSAF, On metric Ramsey-type dichotomies .. 289
BIANCHI, GABRIELE, Matheron's conjecture for the covariogram problem .. 203
BJÖRNER, ANDERS, PEEVA, IRENA and SIDMAN, JESSICA, Subspace arrangements defined by products of linear forms .. 273
BLOMER, VALENTIN, Binary quadratic forms with large discriminants and sums of two squareful numbers II .. 69
BUNCE, LESLIE J. and PERALTA, ANTONIO M., The alternative Dunford–Pettis property, conjugations and real forms of C*-algebras .. 161

CASNATI, G. and DEL CENTINA, A., The moduli spaces of bielliptic curves of genus 4 with more bielliptic structures .. 599
CHILL, R., FAŠANGOVÁ, E., METAFUNE, G. and PALLARA, D., The sector of analyticity of the Ornstein–Uhlenbeck semigroup on L^p spaces with respect to invariant measure .. 703
COLESANTI, ANDREA and HUG, DANIEL, Hessian measures of convex functions and applications to area measures .. 221
COSTARA, CONSTANTIN, The 2×2 spectral Nevanlinna–Pick problem .. 684

DE GIOVANNI, FRANCESCO and ROBINSON, DEREK J. S., Groups with finitely many derived subgroups .. 658
DEL CENTINA, A., *see* Casnati, G.
DROSTE, MANFRED and GÖBEL, RÜDIGER, Uncountable cofinalities of permutation groups 335
DU PLESSIS, A. A., *see* Murolo, C.
DUJELLA, ANDREJ and FUCHS, CLEMENS, Complete solution of a problem of Diophantus and Euler .. 33

EICK, BETTINA, Determination of the uniserial space groups with a given coclass .. 622
ERSHOV, M. V., The Nottingham group is finitely presented .. 362

FAŠANGOVÁ, E., *see* Chill, R.
FUCHS, CLEMENS, *see* Dujella, Andrej

GÖBEL, RÜDIGER, *see* Droste, Manfred
GOTHEN, PETER B. and KING, ALASTAIR D., Homological algebra of twisted quiver bundles 85
GUO, ZHIMING, *see* Yu, Jianshe

HAASE, MARKUS, Spectral mapping theorems for holomorphic functional calculi .. 723
HOLT, DEREK F., REES, SARAH, RÖVER, CLAAS and THOMAS, RICHARD M., Groups with context-free co-word problem .. 643
HUG, DANIEL, *see* Colesanti, Andrea

IZUMIYA, S., PEI, D., ROMERO FUSTER, M. C. and TAKAHASHI, M., The horospherical geometry of submanifolds in hyperbolic space .. 779

JABŁOŃSKI, ZENON J. and STOCHEL, JAN, Subnormality and operator multidimensional moment problems .. 438
JIN, ZHIREN and LANCASTER, KIRK, Convergent rates for solutions of Dirichlet problems of quasilinear equations .. 415

KIEM, YOUNG-HOON and WOOLF, JONATHAN, Intersection cohomology of symplectic quotients by circle actions .. 531
KING, ALASTAIR D., *see* Gothen, Peter B.
KORENBLUM, BORIS and ZHU, KEHE, Complemented invariant subspaces in Bergman spaces 467

LANCASTER, KIRK, *see* Jin, Zhiren
LEDYAEV, YU. S. and ZHU, Q. J., Multidirectional mean value inequalities and weak monotonicity .. 187
LIEBECK, MARTIN W. and SEITZ, GARY M., Maximal subgroups of large rank in exceptional groups of Lie type .. 345
LINIAL, NATHAN, *see* Bartal, Yair
LÓPEZ POUSO, RODRIGO, Necessary and sufficient conditions for existence and uniqueness of solutions of second-order autonomous differential equations .. 397

MĂNTOIU, MARIUS, Abelian C*-algebras which are independent with respect to a filter .. 740

MASON, A. W. and SCHWEIZER, ANDREAS, The minimum index of a non-congruence subgroup of SL_2 over an arithmetic domain. II: The rank zero cases 53
MENDEL, MANOR, *see* Bartal, Yair
METAFUNE, G., *see* Chill, R.
MOROZOV, A. and NIES, A., Finitely generated groups and first-order logic 545
MUROLO, C., DU PLESSIS, A. A. and TROTMAN, D. J. A., Stratified transversality via time-dependent vector fields 516

NAOR, ASSAF, *see* Bartal, Yair
NEWELSKI, LUDOMIR and PETRYKOWSKI, MARCIN, Coverings of groups and types 1
NIES, A., *see* Morozov, A.

PALLARA, D., *see* Chill, R.
PEEVA, IRENA, *see* Björner, Anders
PEI, D., *see* Izumiya, S.
PERALTA, ANTONIO M., *see* Bunce, Leslie J.
PETRYKOWSKI, MARCIN, *see* Newelski, Ludomir
PIERCE, L. B., The 3-part of class numbers of quadratic fields 579
PINTO, A. A. and RAND, D. A., Rigidity of hyperbolic sets on surfaces 481
PREST, MIKE, Ideals in mod-R and the ω-radical 321
PUNINSKI, GENA and ROTHMALER, PHILIPP, Pure-projective modules 304

RAND, D. A., *see* Pinto, A. A.
REES, SARAH, *see* Holt, Derek F.
RIPPON, P. J. and STALLARD, G. M., Dimensions of Julia sets of meromorphic functions 669
ROBINSON, DEREK J. S., *see* de Giovanni, Francesco
ROMERO FUSTER, M. C., *see* Izumiya, S.
ROTHMALER, PHILIPP, *see* Puninski, Gena
RŐVER, CLAAS, *see* Holt, Derek F.

SAITO, TOSHIO, Scharlemann–Thompson invariant for knots with unknotting tunnels and the distance of (1,1)-splittings 801
SAMEI, EBRAHIM, Approximately local derivations 759
SCHWEIZER, ANDREAS, *see* Mason, A. W.
SEDYKH, V. D., On the topology of singularities of the set of supporting hyperplanes of a smooth submanifold in an affine space 259
SEITZ, GARY M., *see* Liebeck, Martin W.
SIDMAN, JESSICA, *see* Björner, Anders
SILHOL, ROBERT, A functional relation for accessory parameters for genus 2 aigebraic curves with an order 4 automorphism 133
SMITH, IVAN, Symplectic four-manifolds and conformal blocks 503
SMITH, M. P., Testing Schatten class Hankel operators and Carleson embeddings via reproducing kernels 172
STALLARD, G. M., *see* Rippon, P. J.
STOCHEL, JAN, *see* Jabłoński, Zenon J.

TAKAHASHI, M., *see* Izumiya, S.
THOMAS, RICHARD M., *see* Holt, Derek F.
TROTMAN, D. J. A., *see* Murolo, C.

WALTERS, PETER, Regularity conditions and Bernoulli properties of equilibrium states and g-measures 379
WERNER, IVAN, Contractive Markov systems 236
WILSON, JOHN S., On the growth of residually soluble groups 121
WOJCIECHOWSKI, JERZY, Infinite matroidal version of Hall's matching theorem 563
WOJCIECHOWSKI, JERZY, On the length of snakes in powers of complete graphs 22
WOOLF, JONATHAN, *see* Kiem, Young-Hoon

YEKUTIELI, AMNON and ZHANG, JAMES J., Multiplicities of indecomposable injectives .. 100
YU, JIANSHE, GUO, ZHIMING and ZOU, XINGFU, Periodic solutions of second order self-adjoint difference equations 146

ZHANG, JAMES J., *see* Yekutieli, Amnon
ZHU, KEHE, *see* Korenblum, Boris
ZHU, Q. J., *see* Ledyaev, Yu. S.
ZOU, XINGFU, *see* Yu, Jianshe